



# Phosphor Information Leaflet

## GENERAL

Name	Cerium magnesium undecaaluminate
Chemical formula	CeMgAl <sub>11</sub> O <sub>19</sub>
Application areas	Fluorescent lamps, Tanning lamps

## OPTICAL PROPERTIES

Excitation maxima @ 345 nm em.	172 nm ( $\Delta$ 7.2 eV), 265 nm ( $\Delta$ 4.7 eV)
Emission maximum @ 254 nm exc.	345 nm ( $\Delta$ 3.6 eV)
Centroid wavelength	349 nm ( $\Delta$ 3,5 eV)
Full width @ half emission maximum	-
Lumen equivalent	-
CIE1931 chromaticity coordinates (x, y)	-
Band edge of host lattice	-
Reflection @ 254 nm	10 %
Decay time $\tau_{1/e}$	45 ns

## PHYSICAL PROPERTIES

Body colour	White
Density	4.3 g/cm <sup>3</sup>
Refractive index (at $\lambda$ )	
Mineral type	Magnetoplumbite
Crystal system	Hexagonal
Space group (#)	P 6 <sub>3</sub> /mmc (194)



